ACID RAIN PROGRAM PERMIT

AmerenEnergy Resources Generating Company/Ameren Services

Attn: Mr. Daniel F. Cole, Designated Representative

1901 Chouteau Avenue

P.O. Box 66149, MC 07

St. Louis, Missouri 63166-6149

<u>Oris No.</u>: 856

IEPA I.D. No.: 143805AAG

Source/Unit: E.D. Edwards Power Plant/ Units 1, 2, and 3

<u>Date Received</u>: July 6, 2004 Date Issued: March 21, 2005

Effective Date: January 1, 2005 Expiration Date: December 31, 2009

STATEMENT OF BASIS:

In accordance with Titles IV and V of the Clean Air Act, the Illinois Environmental Protection Agency is issuing this Acid Rain Program Permit to AmerenEnergy Resources Generating Company for its E.D. Edwards Power Plant.

SULFUR DIOXIDE (SO₂) ALLOCATIONS AND NITROGEN OXIDES (NO_x) LIMITS FOR EACH AFFECTED UNIT:

	SO ₂ Allowances,	2005	2006	2007	2008	2009
	under Tables 2, 3,					
UNIT 1	or 4 of 40 CFR Part	2,899	2,899	2,899	2,899	2,899
	73*					
	NO _x Limit	See Provisions for NO _x Averaging Plan, Below				

* Also includes return of repowering deduction of 1 allowance, which was returned by USEPA on October 30, 2000.

	SO ₂ Allowances,	2005	2006	2007	2008	2009
	under Tables 2, 3,					
UNIT 2	or 4 of 40 CFR Part	6,916	6,916	6,916	6,916	6,916
	73*					
	NO _x Limit	See Provisions for NO _x Averaging Plan, Below				

* Also includes return of repowering deduction of 2 allowances, which were returned by USEPA on October 30, 2000.

	SO ₂ Allowances,	2005	2006	2007	2008	2009
	under Tables 2, 3,					
UNIT 3	or 4 of 40 CFR Part	9,125	9,125	9,125	9,125	9,125
	73*					
	NO _x Limit	See Provisions for NO _x Averaging Plan, Below				

^{*} Also includes return of repowering deduction of 3 allowances, which were returned by USEPA on October 30, 2000.

NO_X EMISSIONS AVERAGING PLAN

Pursuant to 40 CFR 76.11, the Illinois EPA approves a NO_x emissions averaging plan that includes the E.D. Edwards Units 1, 2, and 3, effective for calendar years 2005 through 2009 (attached). Under this plan, except as provided below, the NO_x emissions of E.D. Edwards Units 1, 2, and 3, each shall not exceed the annual average alternative contemporaneous emission limitation of 0.46 lb/mmBtu.

Under this plan, the actual Btu-weighted annual average NO_x emission rate for the units in the plan shall be less than or equal to the Btu-weighted annual average NO_x emission rate for the same units had they each been operated during that calendar year in compliance with the applicable emission limitation under 40 CFR 76.5, 76.6, or 76.7. If the designated representative demonstrates that the requirement of the prior sentence (as set forth in 40 CFR 76.11(d)(1)(ii)(A)) is met for a year under the plan, then the units covered by the plan shall be deemed to be in compliance for that year with their alternative contemporaneous annual emission limitations and any annual heat input limits.

PERMIT APPLICATION: The permit application, including the NO_x Compliance Plan and NO_x Averaging Plan, is attached and incorporated as part of this permit. The owners and operators of this source must comply with the standard requirements and special provisions set forth in the application.

COMMENTS, NOTES, AND JUSTIFICATIONS: This permit contains provisions related to SO₂ emissions and requires the owners and operators to hold SO₂ allowances under the federal Acid Rain program to account for SO₂ emissions from the affected units. An allowance is a limited authorization to emit up to one ton of SO₂ during or after a specified calendar year. The transfer of allowances to and from a unit account does not necessitate a revision to the unit SO₂ allocations denoted in this permit (See 40 CFR 72.84).

This permit contains provisions related to NO_x emissions requiring the affected units to comply with applicable emission limitations for NO_x under the Acid Rain program. Pursuant to 40 CFR 76.11, the Illinois EPA is approving a NO_x emission averaging plan that includes E.D. Edwards Units 1, 2, and 3 for calendars years 2005 though 2009. In addition to the described NO_X compliance plan, the affected units shall comply with all other applicable requirements of 40 CFR Part 76, including the duty to reapply for a NO_X compliance plan and requirements covering excess emissions.

This permit does not affect the source's responsibility to meet all other applicable local, state and federal requirements, including state requirements under 35 Ill. Adm. Code Part 217 Subpart W, which addresses NO_x emissions from E.D. Edwards Units 1, 2, and 3.

If you have any questions regarding this permit, please contact Kunj Patel at 217/782-2113.

Page 3

Donald E. Sutton, P.E. Manager, Permits Section Division of Air Pollution Control

cc: Cecilia Mijares, USEPA Region V Dean Hayden, IEPA Region 2



Acid Rain Permit Application

	For more information, see instructions and refer to 40 CFR 72:39 and 72:31					
	This submission is: 🖸 Now 🔲 Revised					
STEP 1						
Identify the source by plant name, State, and ORIS code.	E D Edwards	State	II.	ORIS Code	856	

STEP 2

Enter the unit IDS for every affected unit at the affected source in column "a." For new units, enter the requested information in columns "c" and "d."

0	b	£	d
Unit ID#	Unit Will Hold Allowances in Assordance with 40 CFR 72 9(c)(1)	New Units Commerce Operation Code	New Units Monitor Certification Deadline
1	Yes		4
2	Yes		
3	Yes		
	Vee		
	Yes		
	Van		
	Yus		
	Yes	*	
	You		

Permit Requirements STEP 3

Read the standard

(1) The designated representative of each affected source and each affected unit at the source shall:

(i) Submit a complete Acid Rain permit application (including a compliance plan) under 40 CFR part 72 in accordance with the deadlines specified in 40 CFR 72.30; and

(ii) Submit in a timely manner any supplemental information that the permitting authority determines is necessary in order to review an Acid Rain permit application and issue or deny an Acid Rain permit;

(2) The owners and operators of each affected source and each affected unit at the source shall:

(i) Operate the unit in compliance with a complete Acid Rain permit application or a superseding Acid Rain permit issued by the permitting authority; and

(ii) Have an Acid Rain Permit.

Monitoring Requirements

(1) The owners and operators and, to the extent applicable, designated representative of each affected source and each affected unit at the source shall comply with the monitoring requirements as provided in 40 CFR part 75.

(2) The emissions measurements recorded and reported in accordance with 40 CFR part 75 shall be used to determine compliance by the unit with the Acid Rain emissions limitations and emissions reduction requirements for sulfur dioxide and nitrogen oxides

under the Acid Rain Program. (3) The requirements of 40 CFR part 75 shall not affect the responsibility of the owners and operators to monitor emissions of other pollutants or other emissions characteristics at the unit under other applicable requirements of the Act and other provisions of the operating permit for the cource.

Sulfur Dioxide Requirements

(1) The owners and operators of each source and each affected unit at the source shall; Hold allowances, as of the allowance transfer deadline, in the unit's compliance subaccount (after deductions under 40 CFR 73.34(c)), or in the compliance subaccount

of another affected unit at the same source to the extent provided in 40 CFR 73.35(b)(3), not less than the total annual emissions of sulfur dioxide for the previous

celender year from the unit; and
(ii) Comply with the applicable Acid Rain emissions limitations for sulfur dioxide.
(2) Each ton of sulfur dioxide emitted in excess of the Acid Rain emissions limitations for sulfur dioxide shall constitute a separate violation of the Act.

(3) An affected unit shall be subject to the requirements under paragraph (1) of the sulfur dioxide requirements as follows:

Starting January 1, 2000, an affected unit under 40 CFR 72.6(a)(2); or
 Starting on the later of January 1, 2000 or the deadline for monitor certification under 40 CFR part 75, an affected unit under 40 CFR 72.6(a)(3).

(4) Allowances shall be held in, deducted from, or transferred among Allowance Tracking System accounts in accordance with the Acid Rain Program.

(5) An allowance shall not be deducted in order to comply with the requirements under peregraph (1) of the sulfur dioxide requirements prior to the calendar year for which the allowance was allocated.

(6) An allowance allocated by the Administrator under the Acid Rain Program is a limited. authorization to emit sulfur dioxide in accordance with the Acid Rain Program. No provision of the Acid Rain Program, the Acid Rain permit application, the Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8 and no provision of law shall be construed to limit the authority of the United States to terminate or limit such authorization.

(7) An allowance allocated by the Administrator under the Acid Rain Program does not. constitute a property right.

STEP 3, Cont'd.

Nitrogen Oxides Requirements The owners and operators of the source and each affected unit at the source shall comply with the applicable Acid Rain emissions limitation for nitrogen oxides.

Excess Emissions Requirements

(1) The designated representative of an affected unit that has excess emissions in any calendar year shall submit a proposed offset plan, as required under 40 CFR part 77.

(2) The owners and operators of an affected unit that has excess emissions in any calendar year shall:

(i) Pay without demand the penalty required, and pay upon demand the interest on that penalty, as required by 40 CFR part 77; and

(ii) Comply with the terms of an approved offset plan, as required by 40 CFR part 77.

Recordkeeping and Reporting Requirements

(1) Unless otherwise provided, the owners and operators of the source and each affected unit at the source shall keep on site at the source each of the following documents for a period of 5 years from the date the document is created. This period may be extended for cause, at any time prior to the end of 5 years, in writing by the Administrator or permitting

authority:

(i) The certificate of representation for the designated representative for the source and each affected unit at the source and all documents that demonstrate the truth of the elaternents in the certificate of representation, in accordance with 40 CFR 72.24; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such documents are superseded because of the submission of a new certificate of representation changing the designated representative;

(ii) All emissions monitoring information, in accordance with 40 CFR part 75, provided that to the extent that 40 CFR part 75 provides for a 3-year period for recordkeeping.

the 3-year period shall apply.

(iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the Acid Rain Program; and,

(iv) Copies of all documents used to complete an Acid Rain permit application and any other submission under the Acid Rain Program or to demonstrate compliance with the requirements of the Acid Rain Program.

(2) The designated representative of an affected source and each affected unit at the source shall submit the reports and compliance certifications required under the Acid Rain Program, including those under 40 CFR part 72 subpart I and 40 CFR part 75.

Liability

- (1) Any person who knowingly violates any requirement or prohibition of the Acid Rain Program, a complete Acid Rain permit application, an Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8, including any requirement for the payment of any penalty owed to the United States, shall be subject to enforcement pursuant to section 113(c) of the Act.
- (2) Any person who knowingly makes a false, material statement in any record, submission, or report under the Acid Rain Program shall be subject to criminal enforcement pursuant to section 113(c) of the Act and 18 U.S.C. 1001.

(3) No permit revision shall excuse any violation of the requirements of the Acid Rain Program that occurs prior to the date that the revision takes effect.

(4) Each affected source and each affected unit shall most the requirements of the Acid Rain Program.

Step 3, Cont'd.

Liability, Cont'd.

(5) Any provision of the Acid Rain Program that applies to an affected source (including a provision applicable to the designated representative of an affected source) shall also apply to the owners and operators of such source and of the affected units at the source. (6) Any provision of the Acid Rain Program that applies to an affected unit (including a (6) Any provision of the Acid Rain Program that applies to an affected unit (including a provision applicable to the designated representative of an affected unit) shall also apply to the owners and operators of such unit. Except as provided under 40 CFR 72.44 (Phase II repowering extension plans) and 40 CFR 76.11 (NO, averaging plans), and except with regard to the requirements applicable to units with a common stack under 40 CFR part 75 (including 40 CFR 75.16, 75.17, and 75.18), the owners and operators and the designated representative of one affected unit shall not be liable for any violation by any other representative. affected unit of which they are not owners or operators or the designated representative and that is located at a source of which they are not owners or operators or the designated representative.

(7) Each violation of a provision of 40 CFR parts 72, 73, 74, 75, 76, 77, and 78 by an affected source or affected unit, or by an owner or operator or designated representative of such source or unit, shall be a separate violation of the Act.

Effect on Other Authorities

No provision of the Acid Rain Program, an Acid Rain permit application, an Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8 shall be construed as:

(1) Except as expressly provided in title IV of the Act, exempting or excluding the owners and operators and, to the extent applicable, the designated representative of an affected source or affected unit from compliance with any other provision of the Act, including the provisions of title I of the Act relating to applicable National Ambient Air Quality Standards

or State Implementation Plans: (2) Limiting the number of allowances a unit can hold; provided, that the number of allowances held by the unit shall not affect the source's obligation to compty with any other provisions of the Act;

(3) Requiring a change of any kind in any State law regulating electric utility rates and charges, affecting any State law regarding such State regulation, or limiting such State regulation, including any prudence review requirements under such State law;

(4) Modifying the Federal Power Act or affecting the authority of the Federal Energy Regulatory Commission under the Federal Power Act, or,

(5) Interfering with or impairing any program for competitive bidding for power supply in a State in which such program is established.

Certification STEP 4

Read the certification

I am authorized to make this submission on behalf of the owners and operators of the affected source or affected units for which the submission is made. I certify under penalty of law that I have personally examined, and arm familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment.

Name Daniel F. Cole	
signature Comment 7. Cl	Date 6/30/04

Phase II NO_x Compliance Plan Prop [1] of [2]

	For more information, see instructions and refer to 40 CFR 75.9 This submission is: New Revised						
STEP 1 indicate plant name, \$tate, and ORIS code from NADS, if applicable	Plant Harro E	D Edwards			IL 56300	856 ORIS Code	
STEP 2	identify each affected Group 1 and Group 2 boiler using the boiler ID# from NADB, if applicable. Indicate boiler type: "CB" for cell burner, "CY" for cyclone, "DBW" for dry potrom was-fired, "I" for tangemiasy nred, "" for vertically fired, and "WB" for wet bottom. Indicate the compilance option selected for each unit.						
	ine 1	De 2	ibe 3	iDe	DA	C#	
	_{Type} DBW	T ₀₉₀ DBW	Type DBW	Type	Type	Туро	
(a) Starriard annual average envision limitation of 8.35 (binmible (for Phase I dry bottom wall-field bottom)							
(b) Standard armusi average emission improve of 9.43 (b)mm8hi (for Phase I tangentially fired to thes)							
(c) EPA-approved early election of the under 40 CFR 76.3 theres 12/31/07 (also indicate above emission limit specified in plan	, ₋						
(d) Standard armusi average emission limitation of 5.45 (oranget) (for Phase 1 dry bottom was-first) bottom;	П						
(e) Standard enruel average pression limitation of 0.40 brings to Jur Phase 8 tangentially \$150 00000)							
(f) Standard annual average emission limitation of 0.65 (binnedtu (for cell burner botters)							
(g) Disorderd account average phiseign limitation of 0.85 bismattu (for cyclone boilers)							
(h) Standard annual average eritasign limitation of 0.80° binmility (for vertically fixed bollers)							
(i) Standard annual average simulation invitation of 0.84 Extra00to (for set bottom bottom)							
(i) NO. Averaging Plan (Include NO. Averaging form)	(X)	X	X				
(k) Common stack purposett to the CCP of Transpillar choos the standard ordination limitation pay above for most stringer pay above for most stringer pay above for most any unit utilizing stack)					0		
(i) Common asses pursuant to CFR 75,17(a)(2(i)(ii) with NO, Averaging (chick the NO, Averaging Han law and finited NO, Averaging form)							

STEP 2 confid	Plant Name (in		dwards	attalies .	NO, Completen - P	
	D#	ги	Cel	04	Cr.	Co .
	Турм	Турк	Туре	Type	Type	Тури
in) EPA-approved common stack apportunated treatment to 40 CFR 75.17 at 20(0)CL (a)(2)(4)(0)CL or (b)(2)	, 0				0	
n) AEL (include Phase II AEL htmoretration Period Pingl IEL Petition, or AEL Removal offin as appropriate)		П		0		
oj Petition for AEL Igmonstration period or final AEL under revolue by 11 % P.P.a. Internation period ongoing	. 0				п	0
A Representing extension plan pprovide or under review						
tead the standard nutricements and ortification, enter the same of the designated opresentative, sign &	ILINES INSTRUCTION	surce is subject to the	s standard requirement course's Apid Rain Pa	is in 40 CFR 72.9 (co	resistant with 40 CFR	76.0(0)(1)(1).

immation for NU, as provided under 40 CFR 76.5(a)(2) accept as provided under 40 CFR 76.5(a)(2) accept as provided under 40 CFR 76.5(a)(2) accept as provided under 40 CFR 76.5(a)(3)(a), isolate. The overess and operators of a unit governed by an approved early staction plan shall be liable for any violation of the plan or 40 CFR 76 a) in unit unit. This coveres and operators shall be liable, beginning January 1, 2000, for fulfilling the obligations specified in 40 CFR Pair 77. Termination. An experience outly obtained plan whether to effect only wait the content of January 1, 2000 or sanuary 1 of the extender year for which a termination of the plan better effect. If the designation expressionable of the unit under an accordance shall seed on the fact in deservatives compliance with the contents or enterior instation under 40 CFR 76.5 for any year during the period beginning January 1 of the lind system the early election blace effect and ending December 31, 2007, the permitting authority will terminate the plan. The termination will take effect on adving December 31, 2007, the permitting authority will terminate the plan. The termination will relate effect on plan and proposed carry extended impresentative of the unit enterior of the plan and the enterior of the plan and plan any year point to be plan any year point to 2008 that may not submit a new early election plan. The designated representative of the unit enterior any year point year prior to 2008 that may not submit a new early election plan. In order to terminate the plan any year point to 2000, the unit shall ment, beginning Jeruary 1, 2000, the applicable emissions limitation for NO, for Phase II units with Group 1 becieve under 40 CFR 78.7. If en corty election plan is lemmated our or after 2000, the unit shall ment, beginning on the effective date of the termination, the applicable emissions limitation for NO, for Phase II units with Group 1 becieve under 40 CFR 78.7.

Certification

I are sufferited to make this submission on behalf of the owners and operation of the affected source or affected units for which the submission is made. Loretly under panelty of low that I have personally examined, and are lamited with, the submission are information submissed in this document and all its affectments. Gazed on my knowly of losse intercepts and primary property proportionally for obtaining the information, Loretly that the statements and information are to the best of my knowledge and belief time, accurate, and compile. I am aware that there are agenticant permitting false absorbers and information or containing required statements and information, including the possibility of fine or imprisonment.

Daniel F. Cole	All Barrier and the
syrum Smil 2 Cl.	and bolow



Phase II NO_x Averaging Plan

for more information, see Inc	structions and refer to 40 CFR 76.11	Page 1
This subtribution is: X New	Revised	Page [] of [2]

STEP 1

Identify the units participating in this averaging plan by plant name, State, and boiler IDE from NADB. In unitary special plant in each unitary special process of the state of the state

State	IDe	Emission Limitation	(b) ACEL	(c) Annual Heat Input Limit
IL.	1	0.46	0.46	23,300,000
IL.	1	0.46	0.46	6,100,000
IL	2	0.46	0.46	16,100,000
IL	3	0.46	0.46	20,500,000
	IL IL	IL 1 IL 1 IL 2	IL 1 0.46 IL 1 0.46 IL 2 0.46	State IDV

STEP 2

Use the formula to enter the Bou-weighted annual emission rate averaged over the units if they are operated in accordance with the proposed averaging plan and the Bbu-weighted annual average emission rate for the same units if they are operated in they are operated in compliance with 40 CFR 76.5, 76.5, or 76.7 The former must be less than or equal to the latter.

Rtu-weighted annual emission rate averaged over the units if they are operated in accordance with the proposed averaging plan Philipse annual average emission rate for same units operated in compilance with 40 GPR 76.5, 76.6 or 76.7

Where, Ru Alternative contemporaneous annual emission limitation for unit i, in IbimmBu, as specified in column (b) of Step 1: Applicable emission limitation for unit i, in Ib/mmBlu, as specified in column (a) of Step 1: Annual field input for unit i, in mmBlu, as specified in column (c) or Step 1: Annual field input for unit i, in mmBlu, as specified in column (c) or Step 1: Number of units in the averaging plan R, н,

NO, Averaging - Page 2

STEP 3

Mark one of the two options and enter dates.

through calendar year 2009 [X] This plan is effective for calendar year 2005 unless notification to terminate the plan is given. Irest this plan as indentical plans, each effective for one calendar year for the following. ___ and ____ uness notification to terminate one or more of these plans is given.

STEP 4

Read the special provisions and cartification, enter the name of the designated representative, and sign and date.

Special Provisions

Emission Limitations

Each affected unit in an approved averaging plan is in compliance with the Acid Rain emission limitation for NO, under the plan only if the following requirements are met:

(i) For each unit the unit's actual annual average emission rate for the calendar year, in formality, is less than or equal to its alternative contemporaneous annual emission limitation in the averaging plan, and (a) For each unit with an afternative contemporaneous emission limitation less stringent than the applicable emission limitation in 40 CFR 76.5, 76.6, or 76.7, the actual annual heat input for the calendar year does not exceed the

Imitation in 40 CFR 76.5, 76.6, or 76.7, the actual annual heat input for the calendar year does not exceed the annual heat input limit in the averaging plan. (b) For each unit with an attemptive contemporaneous emission limitation more stringent than the applicable emission limitation in 40 CFR 76.5, 76.6, or 76.7, the actual annual heat input for the calendar year is not less than the annual final input for the calendar year is not less than the annual input limit to the executing that it is the executing that the calendar year is not less than the annual input limit the units does not meet the requirements of (i), the designated representative shall demonstrate, in accordance with 40 CFR 76.11(d);11(d);21 and (8), that the octual 8th weighted annual inversage amission make for the units in the plan is less than or equal to the Bitu-weighted annual average rate for the same units hed they each hear inprecion, during the same period of time, in compliance with the applicable emission finitions in 40 CFR 76.5, 76.6, or 76.7.

(Fi) if there is a successful group showing of compliance under 40 CFR 76.11(d)(1)(i)(A) and (B) for a calendar year, then all units in the averaging plan shall be deemed to be in compliance for that year with their alternative confemporaneous emission limitations and annual heat input limits under (i).

Liobilty

The numers and operators of a unit governed by an approved averaging of an shall be table for any violation of the plan or this section at that unit or any other unit in the plan, including tablety for fulfilling the obligations specified in part 77 of this chapter and sections 113 and 411 of the Act.

Turmmatun

The designated representative may submit a notification to terminate an approved averaging plan, in accordance with 40 CFR 72.40(d), no later than October 1 of the calendar year for which the plan is to be terminated.

Certification

I omoutherized to make this submission on behalf of the owners and operators of the affected source or affected units for which the submission is made. I confly under penalty of law that I have personally examined, and emfarmise with, the statements and information submissed in this document and affective attentions. Besed on my inquity of those individuals with primary responsibility for obtaining the information, I carried that the statements and information are to the best of my knowledge and belief true, accurate, and complism. I am aware that them are significent penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment.

Daniel F. Cole Signorure Donil 7.Ch 0010 6 30/04